

5 **WHAT IS CLAIMED:**

1. A cross-linkable composition, essentially for use as protective or adhesive coating, said composition comprising the following main components, by weight:

- |    |   |           |
|----|---|-----------|
|    | a) Chlorosulfonated polyethylene (CSPE) | 100       |
| 10 | b) Epoxydimethylhydantoin resin         | 10.0-20.0 |
|    | c) tris-[dimethylaminoalkyl]-phenol     | 5.0-15.0  |

2. A cross-linkable composition as defined in claim 1, which comprises aqueous dispersion of chlorosulfonated polyethylene, said aqueous dispersion has a mass concentration of 37-50%.

15 3. A cross-linkable composition as defined in claim 2, in which said epoxydimethylhydantoin resin has molecular mass 240-280 and mass concentration of epoxy groups 29-32%.

4. A cross-linkable composition as defined in claim 1, in which said tris-[dimethylaminoalkyl]-phenol comprises water-soluble Mannich base, selected  
20 from the group consisting of 2,4,6 -tris(dimethylaminomethyl) phenol, 2-(dimethylaminomethyl) phenol, 2,6-bis(dimethylaminomethyl) cresol, 2,6-bis(dimethylaminomethyl)-4-tertiary-butylphenol.

5. A cross-linkable composition as defined in claim 1, comprising the following additives, in mass percents

- |    |           |       |
|----|-----------|-------|
| 25 | a filler  | 3-10  |
|    | a pigment | 3-10. |

6. A cross-linkable composition as defined in claim 5, in which said additives are inorganic compounds, selected from the group consisting of oxides, hydroxides and salts.

30 7. A coating for protecting or adhesion of various substrates, said coating comprises by weight:

- |  |   |           |
|--|---|-----------|
|  | a) Chlorosulfonated polyethylene (CSPE) | 100       |
|  | b) Epoxydimethylhydantoin resin         | 10.0-20.0 |
|  | c) tris-[dimethylaminoalkyl]-phenol     | 5.0-15.0  |

35 8. A coating as defined in claim 7, in which said epoxydimethylhydantoin resin has molecular mass 240-280 and mass concentration of epoxy groups 29-32 and

- 5 said tris-[dimethylaminoalkyl]-phenol comprises water-soluble Mannich base,  
selected from the group consisting of 2,4,6 –tris(dimethylaminomethyl) phenol,  
2-(dimethylaminomethyl) phenol, 2,6-bis(dimethylaminomethyl) cresol, 2,6-  
bis(dimethylaminomethyl)-4-tertiary-butylphenol.
9. A coating as defined in claim 8, comprising the following additives, in mass  
10 percents
- |           |      |
|-----------|------|
| a filler  | 3-10 |
| a pigment | 3-10 |
10. A coating as defined in claim 5, in which said additives are inorganic  
compounds, selected from the group consisting of oxides, hydroxides and salts.
- 15 11. A method for using a coating composition comprises the following steps:
- a) providing a water-based mixture of chlorosulfonated polyethylene  
(CSPE) with epoxydimethylhydantoin resin;
  - b) providing an aqueous solution of tris-[dimethylaminoalkyl]-phenol;
  - c) mixing said separate components and cross-linking the CSPE to form said  
20 coating.
12. The method as defined in claim 11, wherein said water-based  
mixture comprises an aqueous dispersion of CSPE with a mass concentration of  
37-50%.
13. The method as defined in claim 12, wherein said epoxydimethylhydantoin  
25 resin has molecular mass 240-280 and mass concentration of epoxy groups 29-  
32%.
14. The method as defined in claim 11, wherein said aqueous solution of tris-  
[dimethylaminoalkyl]-phenol comprises water-soluble Mannich base, selected  
from the group consisting of 2,4,6 –tris(dimethylaminomethyl) phenol, 2-  
30 (dimethylaminomethyl) phenol, 2,6-bis(dimethylaminomethyl) cresol, 2,6-  
bis(dimethylaminomethyl)-4-tertiarybutylphenol.
15. The method of claim 11, wherein said water based mixture comprises an  
aqueous dispersion of CSPE with a mass concentration of 38.5-48.5%.
16. The method according to claim 11 utilizing the composition of claim 1.
- 35 17. The method according to claim 11 utilizing the composition of claim 9.
18. The method according to claim 11 utilizing the composition of claim 10.